

$$\begin{array}{l} \mathbb{F}\llcorner\mathbb{E}|_{\mathbb{J}}^1 = \left\{ \begin{array}{l} \mathbb{F}\llcorner\mathbb{E}|_{\mathbb{J}}^1 \xleftarrow{\text{def}} \mathbb{J} \\ \wedge_{t \in \mathbb{F}} t \cdot \underline{t \cdot 1} = \underbrace{t \cdot 1}_{t \cdot 1 + t \cdot 1} + \underline{t \cdot 1} \end{array} \right. \end{array}$$

$$t - \underline{t} \in \mathbb{F}\llcorner\mathbb{E}|_{\mathbb{J}}^1$$

$$\begin{aligned} \overbrace{t \cdot \underline{t} - \underline{t} \cdot 1}^{t \cdot \underline{t} - t \cdot 1} &= t \cdot \underline{t} - t \cdot 1 = \overbrace{t \cdot \underline{t} + t \cdot 1 - t \cdot 1}^{t \cdot \underline{t} + t \cdot 1} - \overbrace{t \cdot 1 + t \cdot 1 - t \cdot 1}^{t \cdot 1} \\ &= \underline{t \cdot \underline{t} + t \cdot 1} - \underline{t \cdot 1} = \underline{t \cdot \underline{t} + t \cdot 1} - \underline{t \cdot 1} \\ &= \overbrace{t \cdot \underline{t} + t \cdot 1}^{t \cdot \underline{t} + t \cdot 1} - \overbrace{t \cdot 1}^{t \cdot 1} = \underline{t \cdot \underline{t} + t \cdot 1} \Rightarrow \underline{t \cdot \underline{t} + t \cdot 1} \in \mathbb{E}|_{\mathbb{J}} \end{aligned}$$

$$\begin{array}{c} \mathbb{F}\llcorner\mathbb{E}|_{\mathbb{J}}^1 \\ \downarrow d \\ \mathbb{F}\llcorner\mathbb{E}|_{\mathbb{J}}^2 \end{array}$$

$$\frac{d\langle \cdot \rangle}{dt} = \langle \cdot \rangle \times \dot{\langle \cdot \rangle} - \langle \cdot \times \dot{\langle \cdot \rangle} \rangle \in \mathbb{C}[J]$$

$$\begin{aligned}
& \frac{d}{dt} \underbrace{\text{th1}}_{t} = \underbrace{\text{th} \text{th1}}_t - \underbrace{\text{th} \text{th1}}_{t \times t} - \underbrace{\text{th th1}}_{t \times t} \\
&= \underbrace{\text{th} \text{th1} + \text{th} \cancel{t \times 1}}_t - \underbrace{\text{th} \text{th1} + \text{th} \cancel{t \times 1}}_{t \times t} - \underbrace{\text{th} \text{th1} + \text{th} \cancel{t \times t} \cancel{\times 1}}_{t \times t} \\
&= \underbrace{\text{th} \text{th1}}_t + \underbrace{\text{th} \cancel{t \times 1}}_t + \underbrace{\text{th} \cancel{t \times 1}}_t + \text{th} \cancel{t \times \cancel{t \times 1}} \\
&\quad - \underbrace{\text{th} \text{th1}}_t - \underbrace{\text{th} \cancel{t \times 1}}_t - \underbrace{\text{th} \cancel{t \times 1}}_t - \text{th} \cancel{t \times \cancel{t \times 1}} \\
&\quad - \underbrace{\text{th} \text{th1} - \text{th} \cancel{t \times t} \cancel{\times 1}}_{t \times t} \\
&= \underbrace{\text{th} \text{th1}}_t - \underbrace{\text{th} \text{th1}}_{t \times t} - \underbrace{\text{th} \text{th1} + \text{th} \cancel{t \times t} \cancel{\times 1} - \cancel{t \times t} \cancel{t \times 1} - \cancel{t \times t} \cancel{\times 1}}_{t \times t} = 0 \\
&= \underbrace{\text{th} \text{th1} - \text{th} \text{th1}}_{t \times t} - \underbrace{\text{th th1}}_{t \times t} = \underbrace{\frac{d}{dt} \text{th1}}_{t \times t}
\end{aligned}$$